

Figure 1

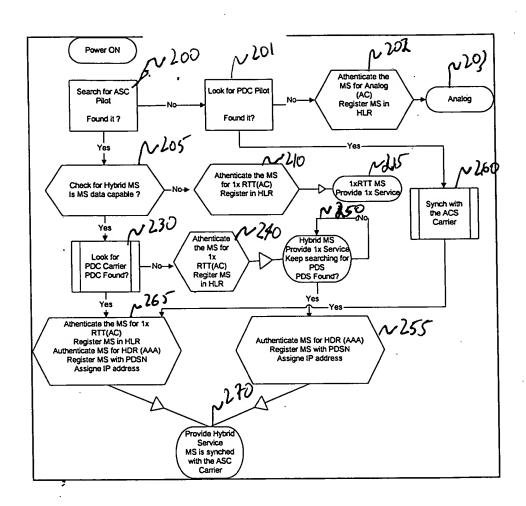


Figure 2

MS is on ASC
BSC notifies MSC of call via A- interface ~ WSC chacks COS A-210
MSC checks COS ~ 210
If automatic switch over is ON
If is High data rate is ON
Synch with PDC
Switch MS to PDC
Connect MS to PDCN → Call is ON , Call Complete
MS disconnect data call
Synch back with ASC 220
Else
Use the low rate data of 1xRTT
MS can use simultaneous data and voice
Else Mus-
Send an SMS with incoming data call (Y/N)
If MS accepts call
Send SMS message, Would you like to use high or low data
If high data rate is selected 230
Synch with PDC
Switch MS to PDC
Connect MS to PDCN → Call is ON
MS disconnect data call
Synch with ASC 7.2
Else V 235
Use the low rate data of 1xRTT
MS can use simultaneous data and voice
<u>Else</u>
Data call is not assented N 290
Data call is not accepted N 240

Figure 3

3.7 OUTGOING DATA CALL IN IDLE STATE

MS is on ASC	
MS has IP addi	ress
MS initiates a d	itch over is ON igh data rate is ON Synch with PDC
If automatic sw	itch over is ON 255
If is H	igh data rate is ON
	Synch with PDC
	Switch MS to PDC
	Connect MS to PDCN → Call is ON
	MS disconnect data call
	Synch back with ASC
Else	<i>~l60</i>
	Use the low rate data of 1xRTT
270	MS can use simultaneous data and voice
Else ~270	
Send	SMS message, Would you like to use high or low data
If high	n data rate is selected ~ 275
	Synch with PDC
	Switch MS to PDC
	Connect MS to PDCN → Call is ON
	MS disconnect data call
	Synch with ASC
_Else	~ 280
(,,,	Use the low rate data of 1xRTT
	MS can use simultaneous data and voice

Figure 1

MS is on ASC
MS is on ASC MS has IP address PDCN reffice PSC of cell 300
PDCN notifies BSC of call
BSC notifies MSC of call via A- interface
MSC checks COS
If automatic switch over is ON ~ 3/o
Check Fundamental Data rate feature
If is High data rate is ON ~35
Place caller on hold in the MSC
Inform voice call of situation (RCAN)
Call is still active in the BSC and MSC (Billing is ON)
Synch with PDC
Switch MS to PDC
Connect MS to PDCN → Call is ON
MS has control to switch back to voice call
MS disconnect data call
Synch with ASC
Bring back voice call
Else ~ 310
Use the low rate data of 1xRTT
Else ~325 MS can use simultaneous data and voice
Send an SMS with incoming data call (Y/N) If MS accepts call
<u>ii MS accepts can</u>
Send SMS message, Would you like to use high or low data
If high data rate is selected
Place caller on hold in the MSC
Inform voice call of situation (RCAN)
Call is still active in the BSC
and MSC-Billing On
Synch with PDC
Switch MS to PDC
Connect MS to PDCN → Call is ON
MS has control to switch back to voice
<u> </u>
call MS disconnect data call
MS disconnect data call Synch with ASC Bring back voice call
MS disconnect data call Synch with ASC
MS disconnect data call Synch with ASC Bring back voice call Else ~ 33
MS disconnect data call Synch with ASC Bring back voice call
MS disconnect data call Synch with ASC Bring back voice call Else Use the low rate data of 1xRTT MS can use simultaneous data and voice
MS disconnect data call Synch with ASC Bring back voice call Else Use the low rate data of 1xRTT MS can use simultaneous data and voice
MS disconnect data call Synch with ASC Bring back voice call Else Use the low rate data of 1xRTT MS can use simultaneous data and voice Else Data call is not accepted
MS disconnect data call Synch with ASC Bring back voice call Else Use the low rate data of 1xRTT MS can use simultaneous data and voice Else Data call is not accepted
MS disconnect data call Synch with ASC Bring back voice call Else Use the low rate data of 1xRTT MS can use simultaneous data and voice

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MS is on ASC
MS has IP address
                            ~350
MS initiates a data call
If automatic switch over is ON
      Check Fundamental Data rate feature ~ 355
       If is High data rate is ON
              Place caller on hold in the MSC
        Inform voice call of situation (RCAN)
        Call is still active in the BSC and MSC (Billing is ON)
        Synch with PDC
              Switch MS to PDC
              Connect MS to PDCN → Call is ON
              MS disconnect data call
              Synch back with ASC
              Bring back voice call
       Else ~ 360
              Use the low rate data of 1xRTT
              MS can use simultaneous data and voice
Else ~ 365
 Send SMS message, Would you like to use high or low data
 If high data rate is selected
              Place caller on hold in the MSC
              Inform voice call of situation (RCAN)
              Call is still active in the BSC and MSC-Billing On
              Synch with PDC
              Switch MS to PDC
             -Connect MS to PDCN → Call is ON
              MS disconnect data call
       370 Synch with ASC
              Bring back voice call
       Else
              Use the low rate data of 1xRTT
```

Figure 6

MS can use simultaneous data and voice

Figure 7 3.12 INCOMING VOICE CALL WHILE ON DATA (HYBRID)

MS is on the PDC carrier
MSC get a voice call
Check COS for Voice Automatic Switch over
If feature is on block Block the call 380
Give RCAN
FISA
If feature is ON $\sim 39^{\circ}$
Check Supplemental Data rate feature
If the High data rate is ON
Cannot accept the call
Caller is informed with RCAN
Else ~ 4/0
Synch with ASC
Continue the data call on lower data
Accept the voice call
Treat call as 1XRTT
Else ~ 420
Send SMS to user, voice call is coming, accept call?
If caller accepts call
Send SMS to user , "High data rate is no longer available"
Synch with ASC
Continue the data call on lower data
Accept the voice call
Treat call as 1XRTT
Flee
Call is rejected ~ 430
·

Caller is informed with RCAN

Figure 8

OUTGOING VOICE CALL WHILE ON DATA (HYBRID)

MS is on the PDC carrier

MS initiates a voice call

Send SMS to user "Are you sure, you will loose your high data rate?"

If the user accepts ~ 445

Synch with ASC
Continue the data call on lower data
Make the voice call
Treat call as 1XRTT call

Else

Call is not placed ~ 450

3.1 POWER ON

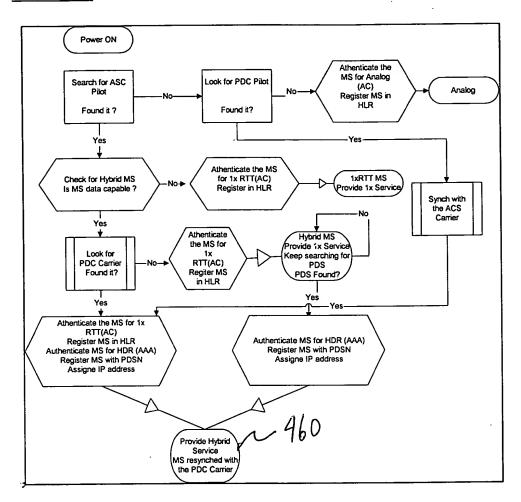


Figure 9

3.4 <u>INCOMING VOICE CALL IN THE IDLE STATE</u>

MS is on PDC MSC gets the call MSC gets the call
MSC checks the COS for Automatic switch for voice call If feature is ON
MSC instructs the MS to search for the ASC
MS finds the ASC and informs the MSC
MS switches to ASC
MSC sends that call to the MS → call is ON
Call is complete (Release)
480 MSC instructs the MS to synch back with the PDC
MS is synched with PDC
<u>Else</u>
MSC sends an SMS to the user telling him about the call
If MS accepts the call
MSC instructs the MS to search for the ASC
MS finds the ASC and informs the MSC
MS switches to ASC
MSC sends that call to the MS → call is ON
Call is complete (Release)
MSC instructs the MS to synch back with the PDC
MS is synched with PDC
Else
Call is rejected

Figure 10

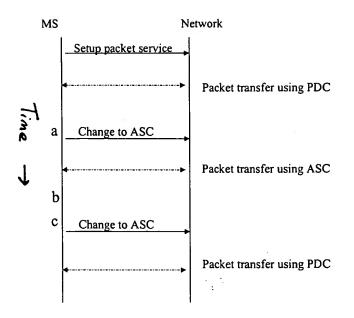


Figure 11

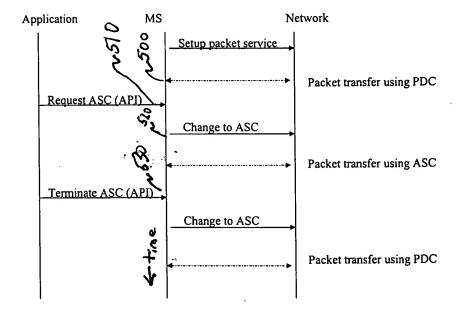


Figure 12